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# Multi-tiered Screening For Spore Display

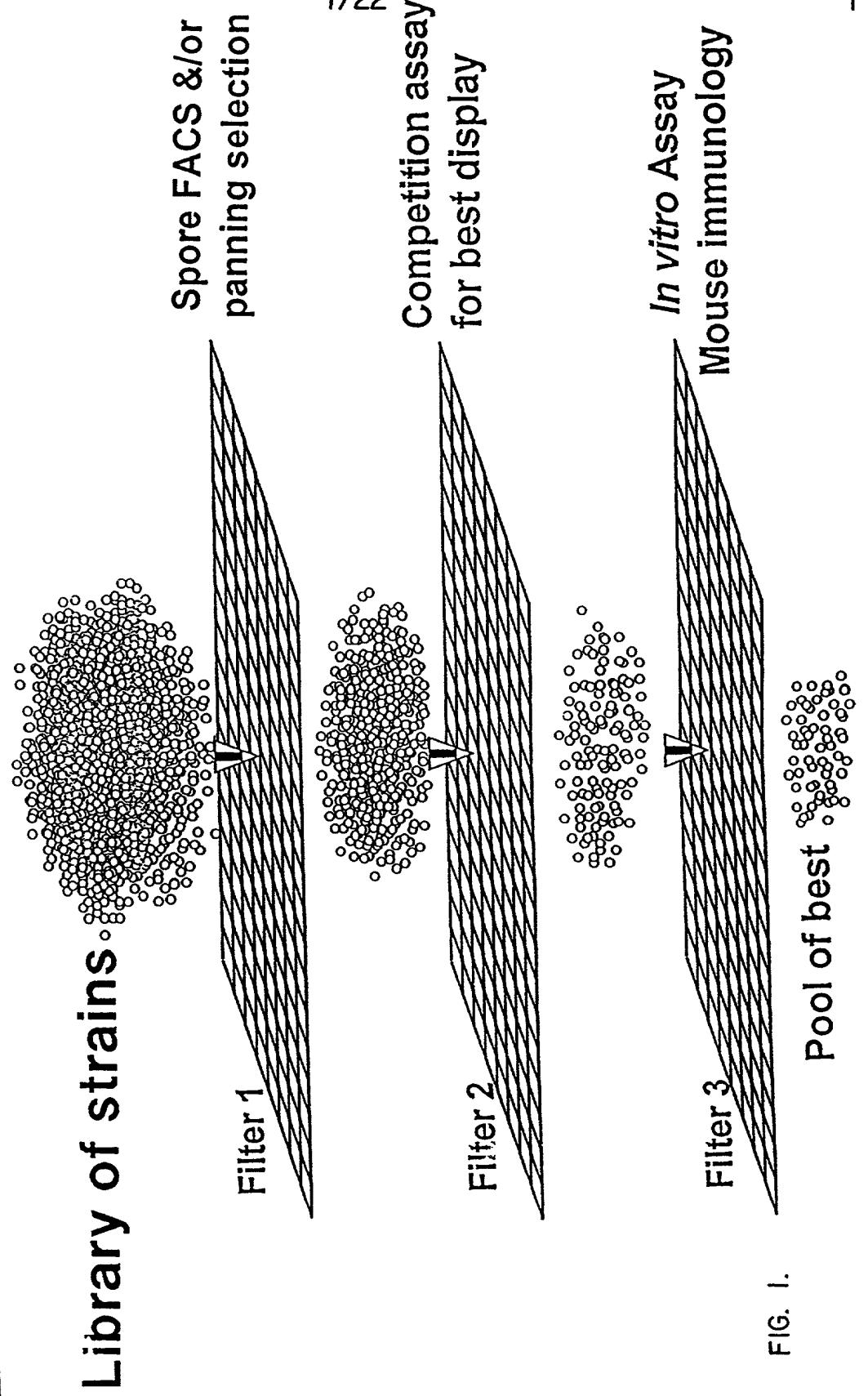
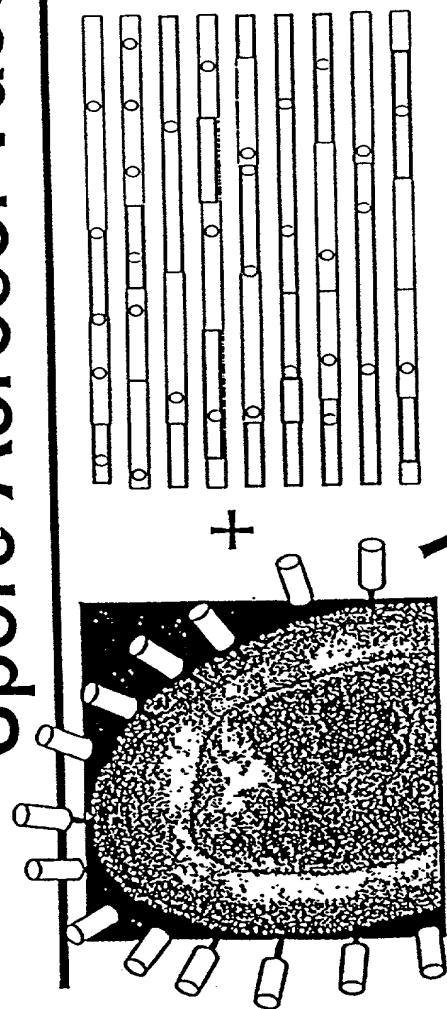


FIG. I.

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# Spore Aerosol Vaccine Library



Combine display strains  
and vaccine libraries

Improved vaccine antigens

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Panning assay for spore  
display

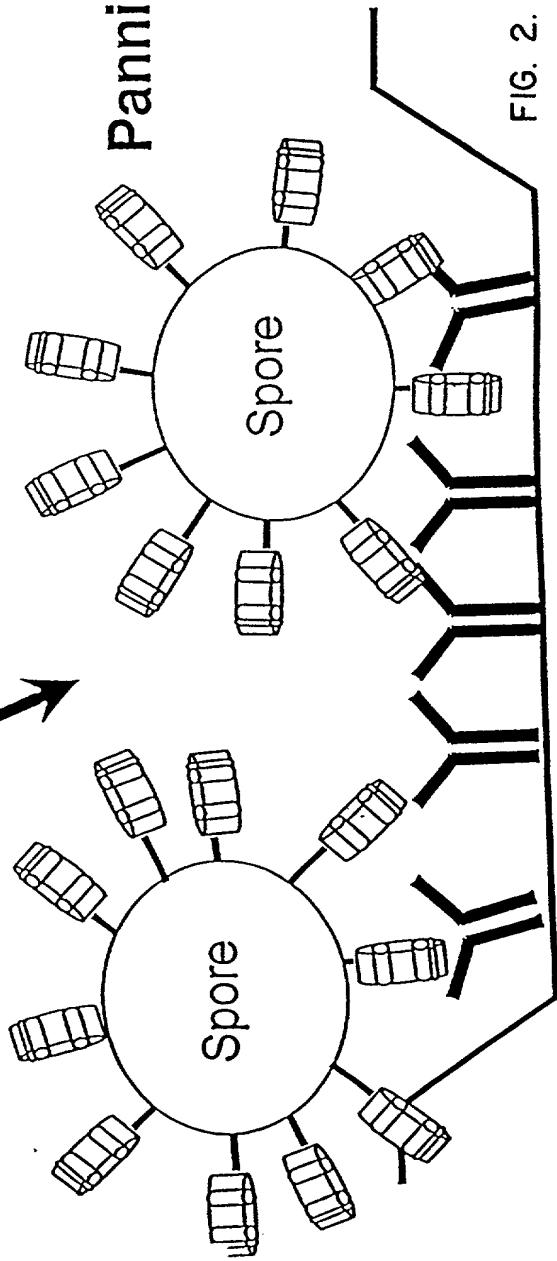


FIG. 2.

# Spore Aerosol Vaccine Library

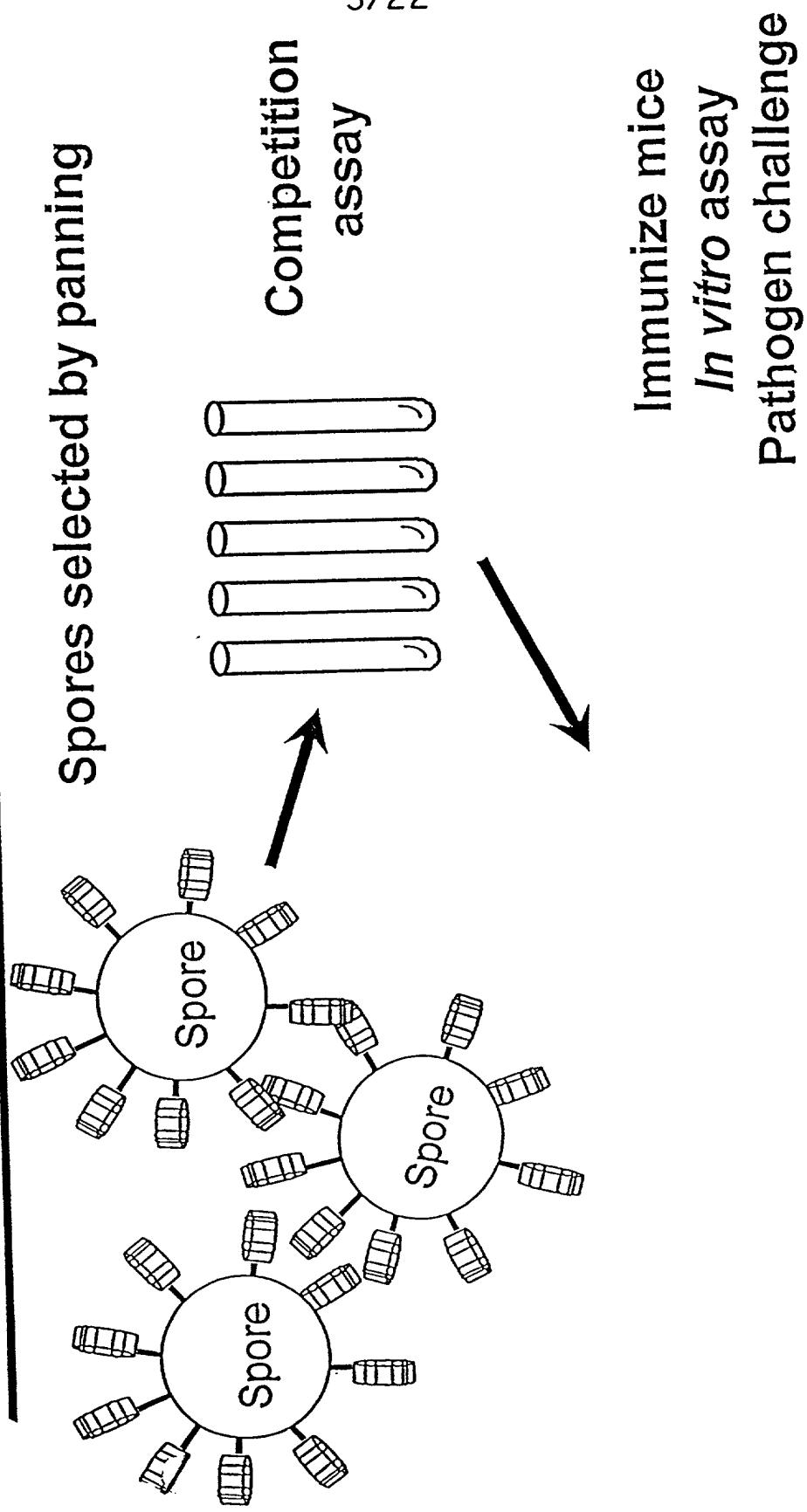


FIG. 3.

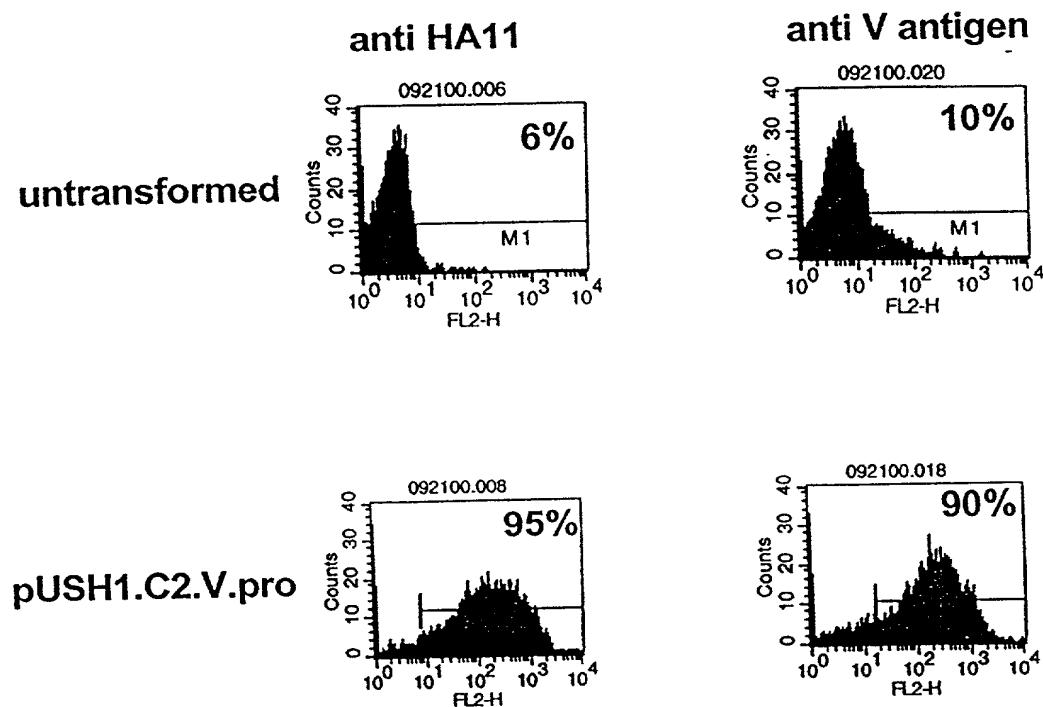


FIGURE 4

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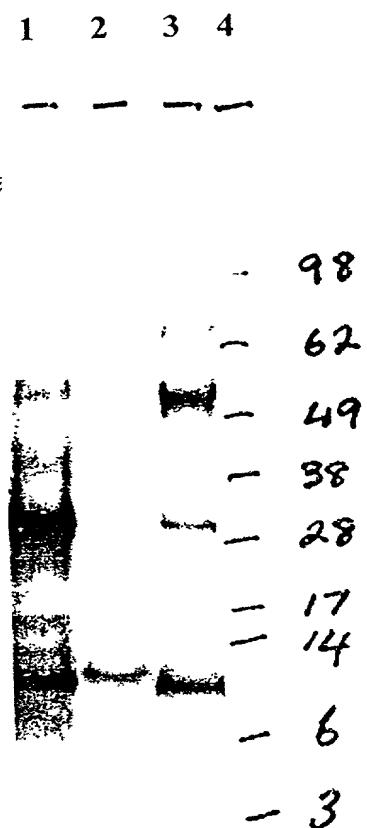


FIG. 5.

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**Fig 6** BALB/c response to recombinant V antigen displayed on spores

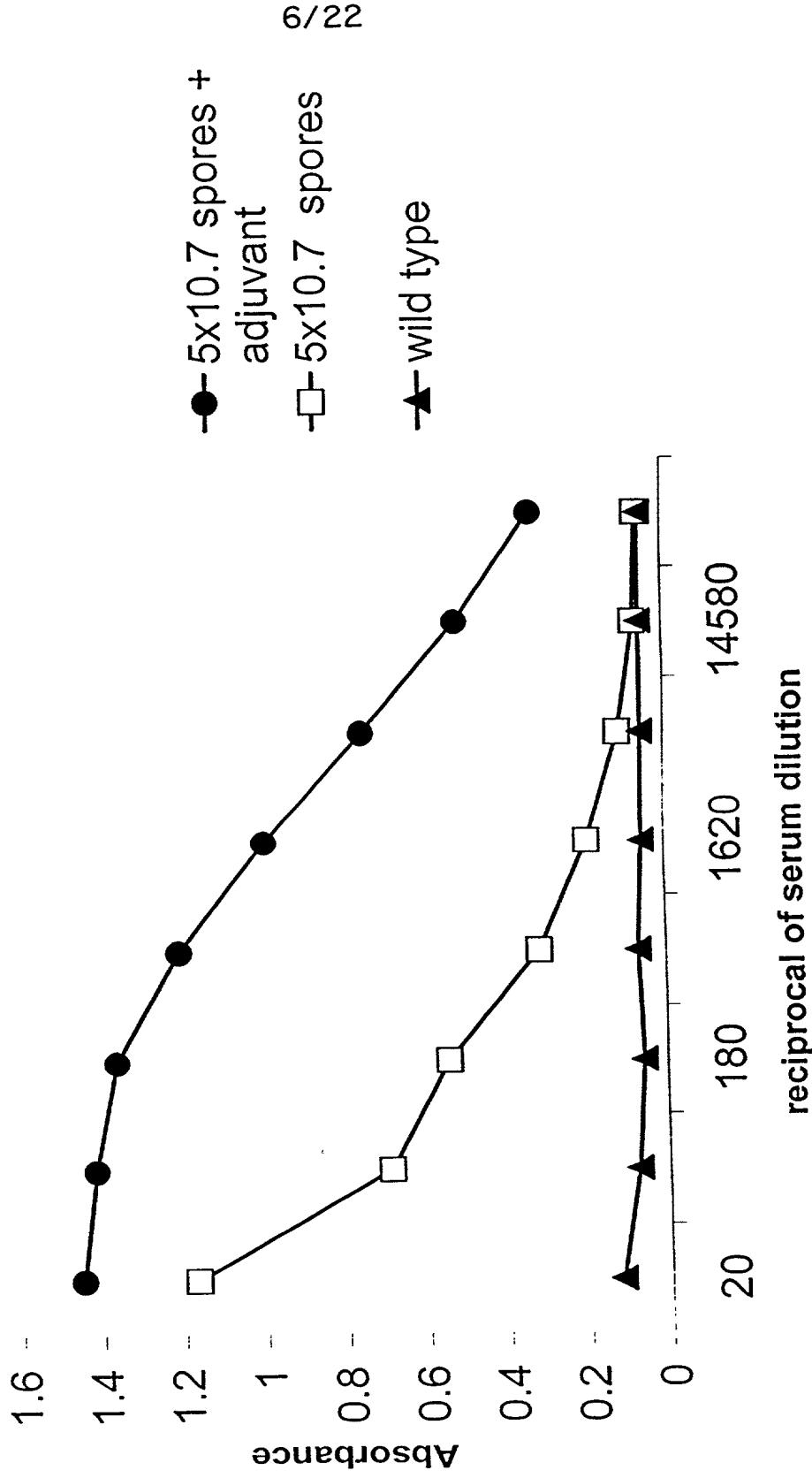
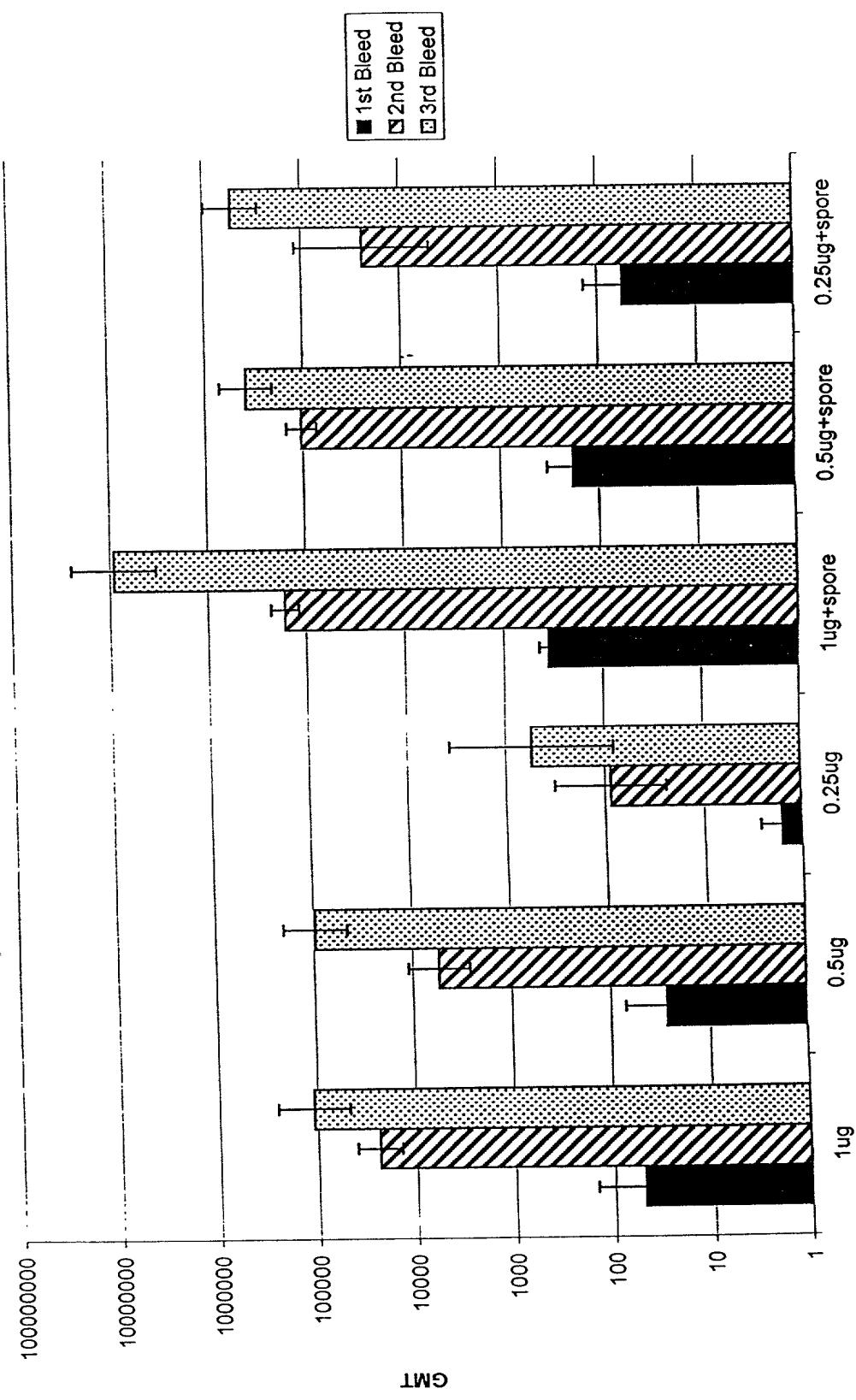


Fig 7 Adjuvant effect of spores on immune response to V antigen in BALB/c mice (n=10)



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### Lipase Activity of Spore-Displayed Lipase

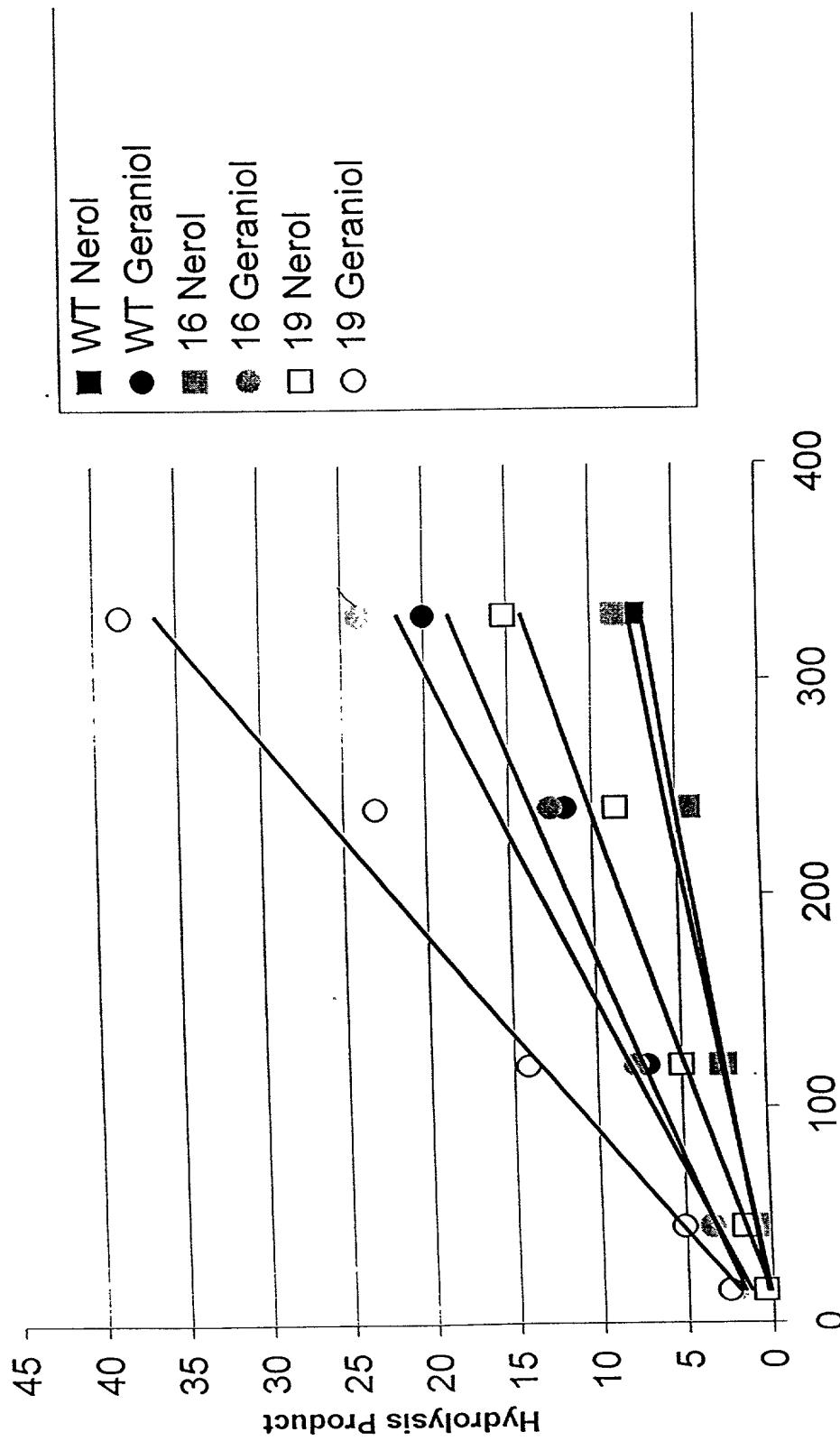


FIG. 8.

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Serum anti-V antigen titers following oral immunization with recombinant spores

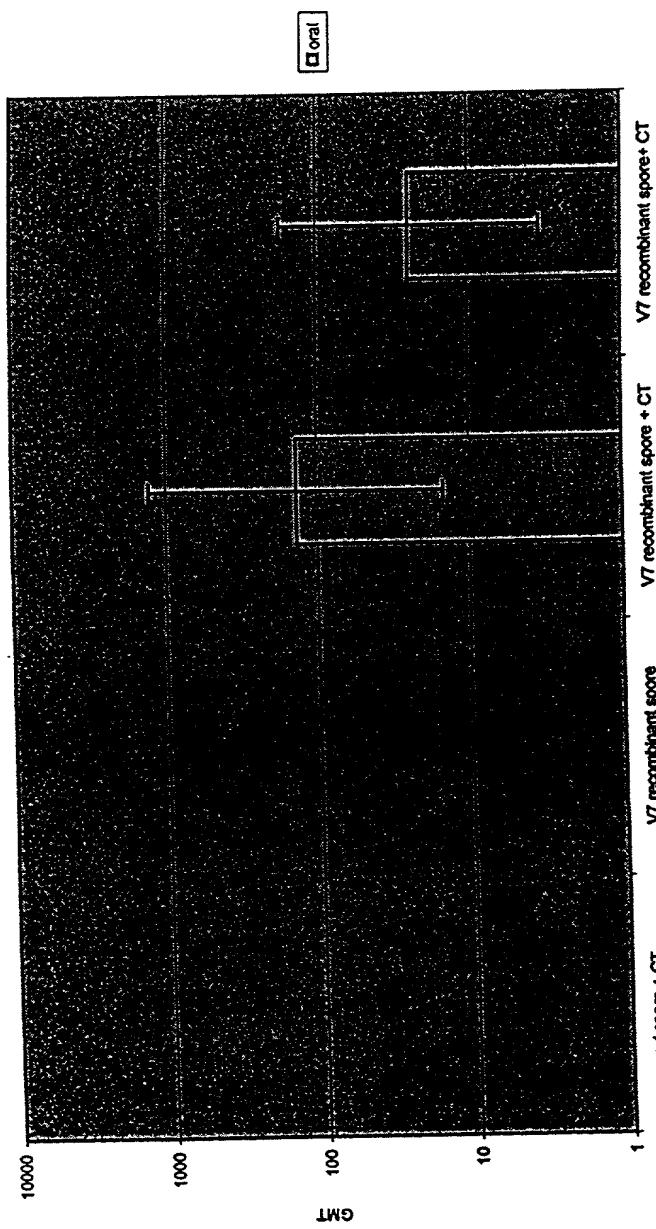


FIG. 9.

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Serum anti-V antigen titers following nasal immunization with recombinant spores.

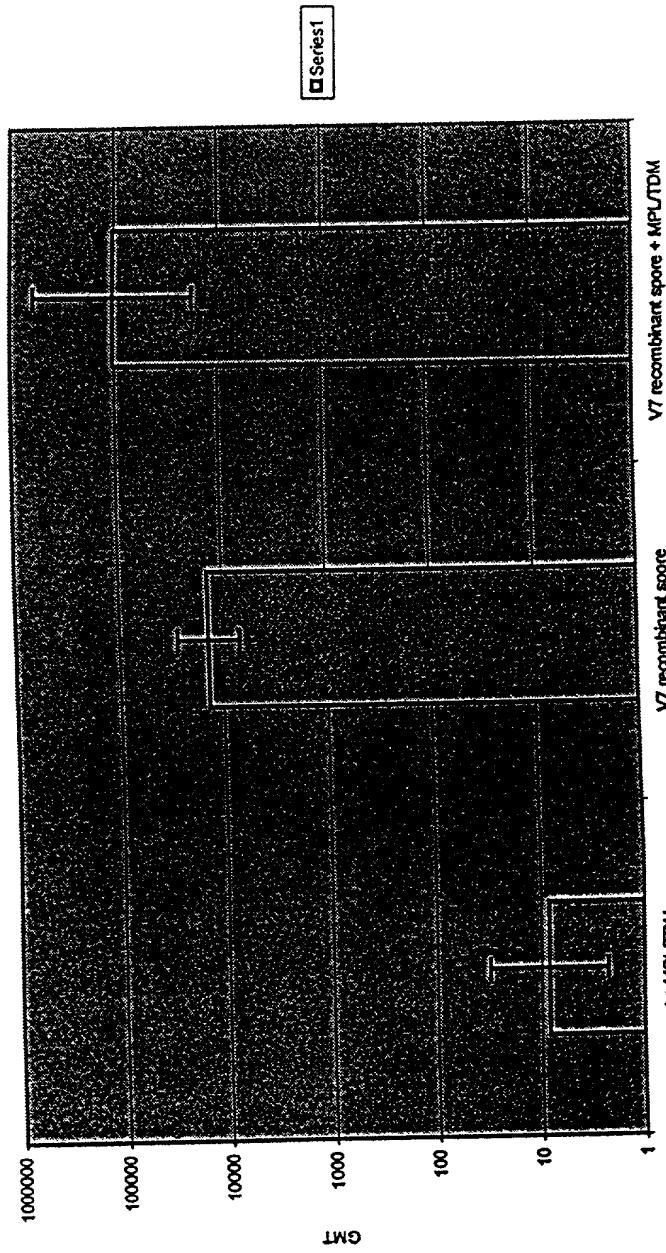


FIG. 10.

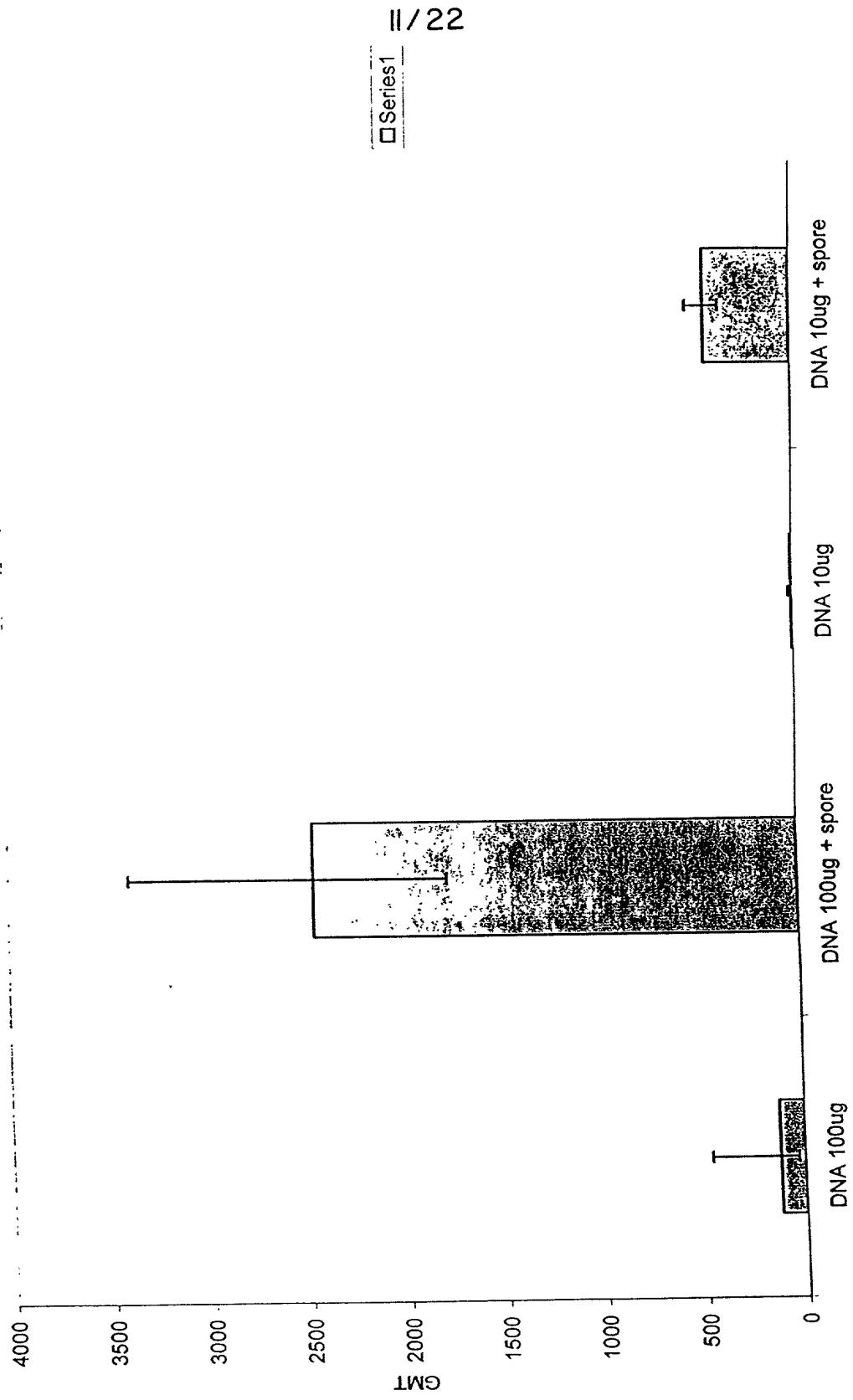
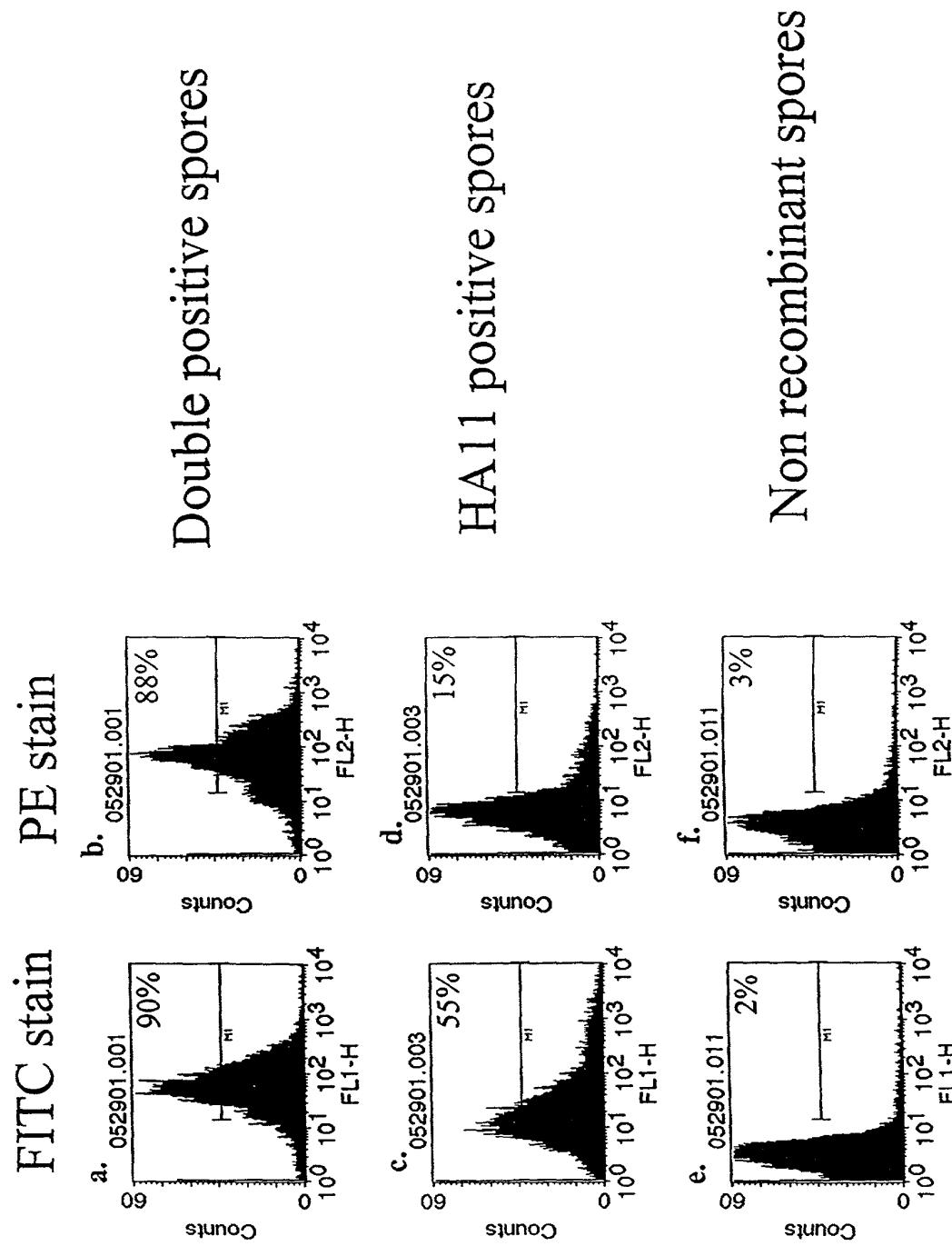


FIGURE 11

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Figure 12



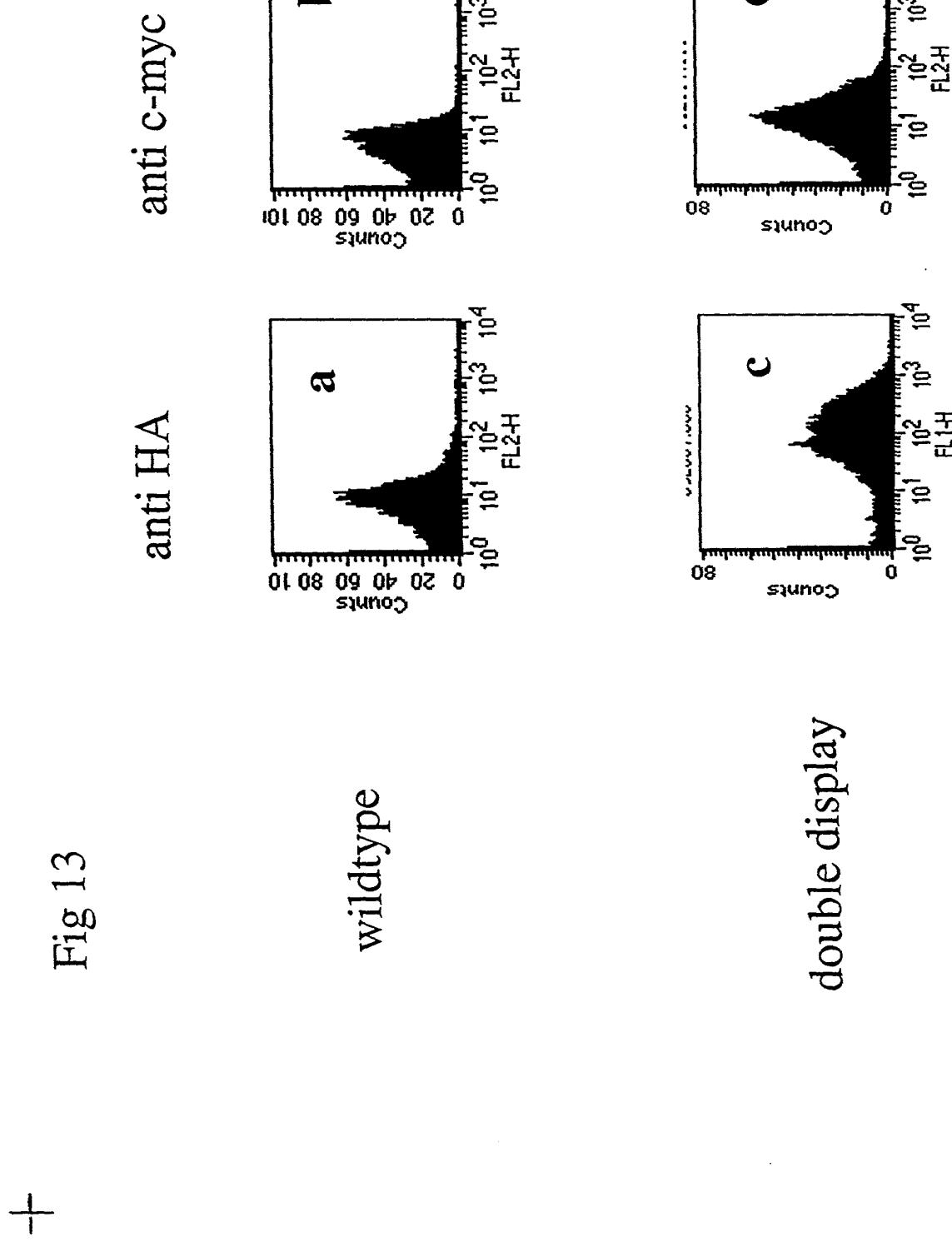


Figure 14. Mice injected with V7 or V7-LT double display spores

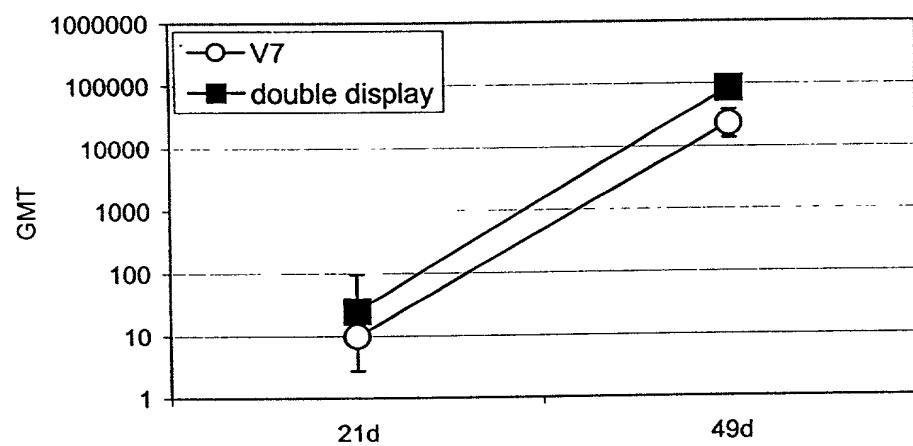


Figure 15. Responders to intranasal immunization

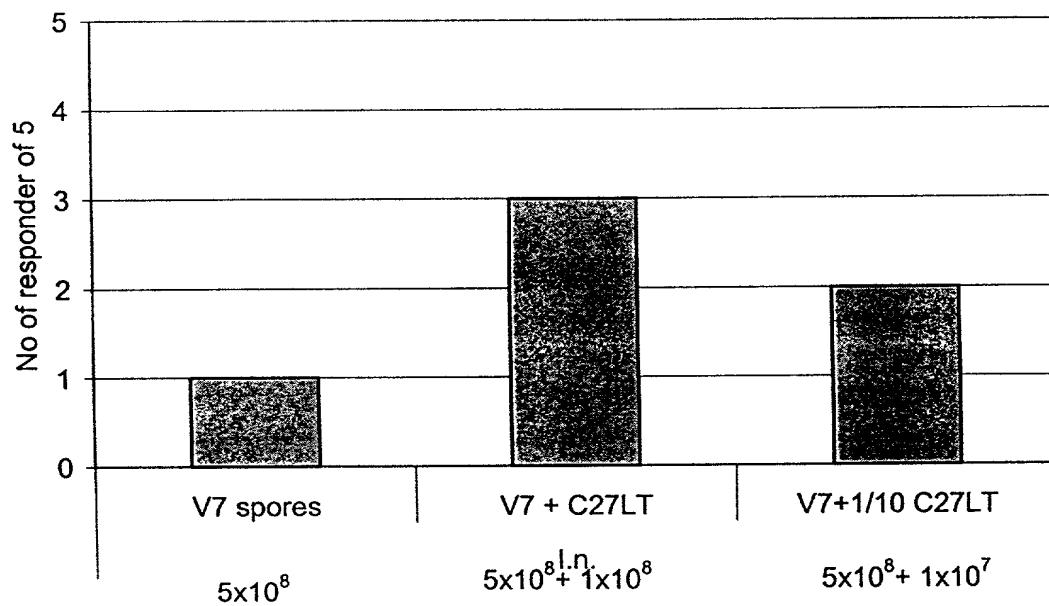


Figure 16. Serum anti V Ag titers in intranasally immunized mice

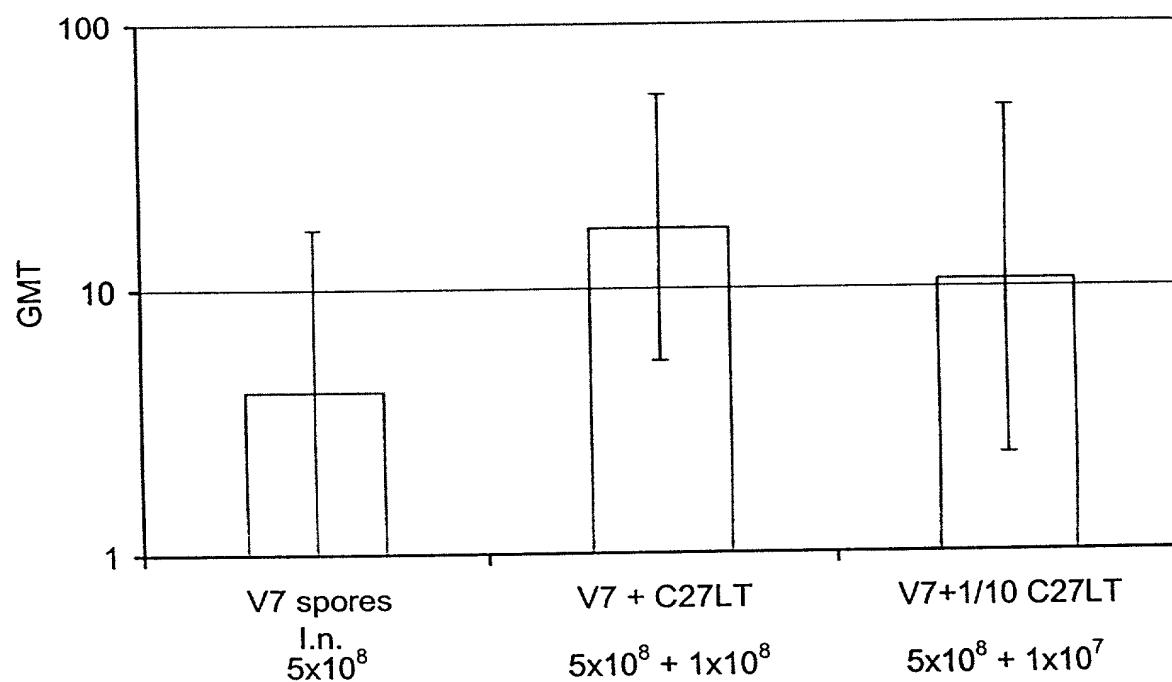
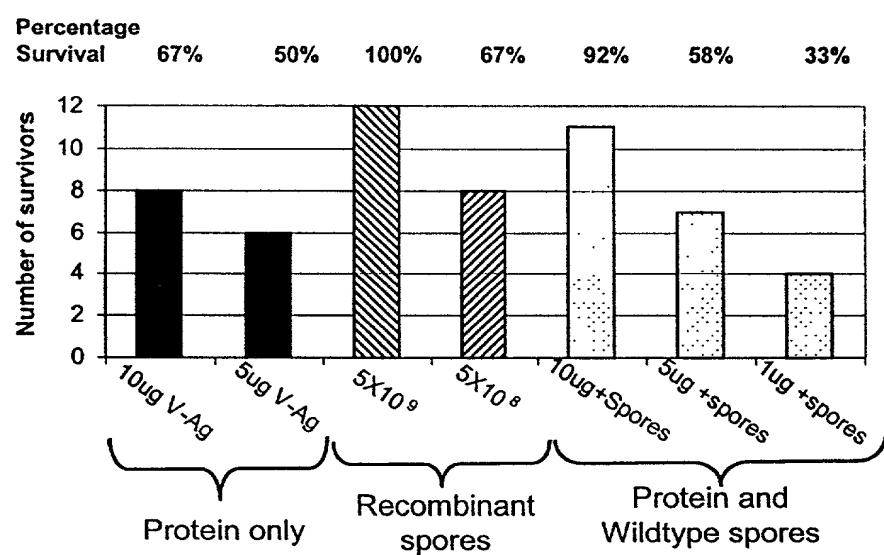
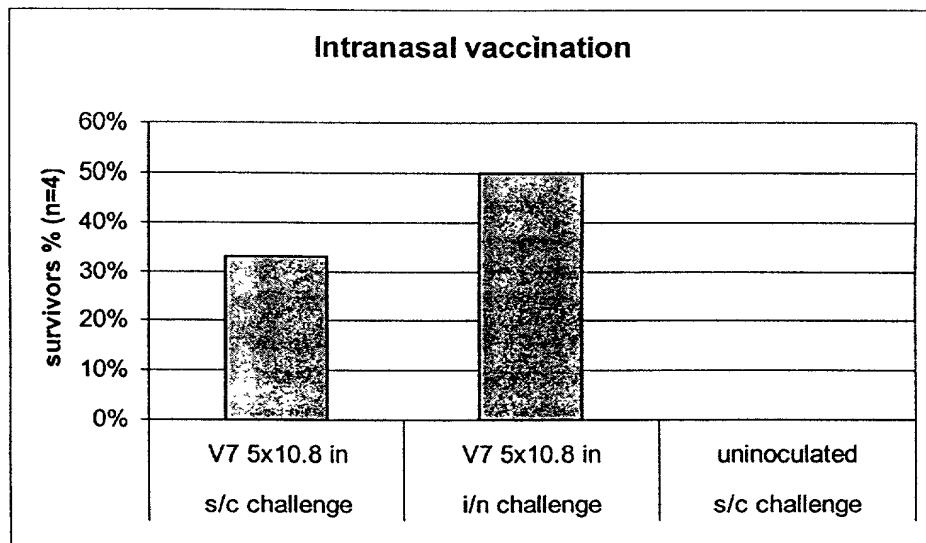


Figure 17

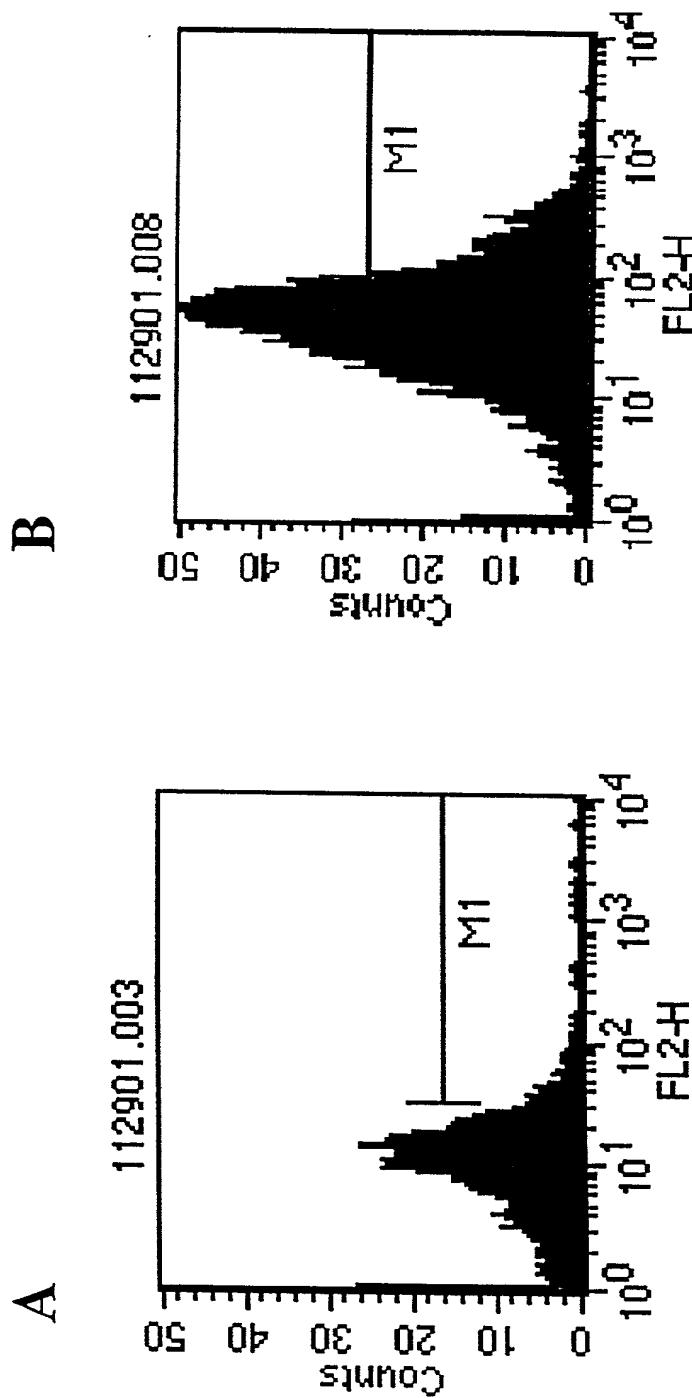


**Figure 18**

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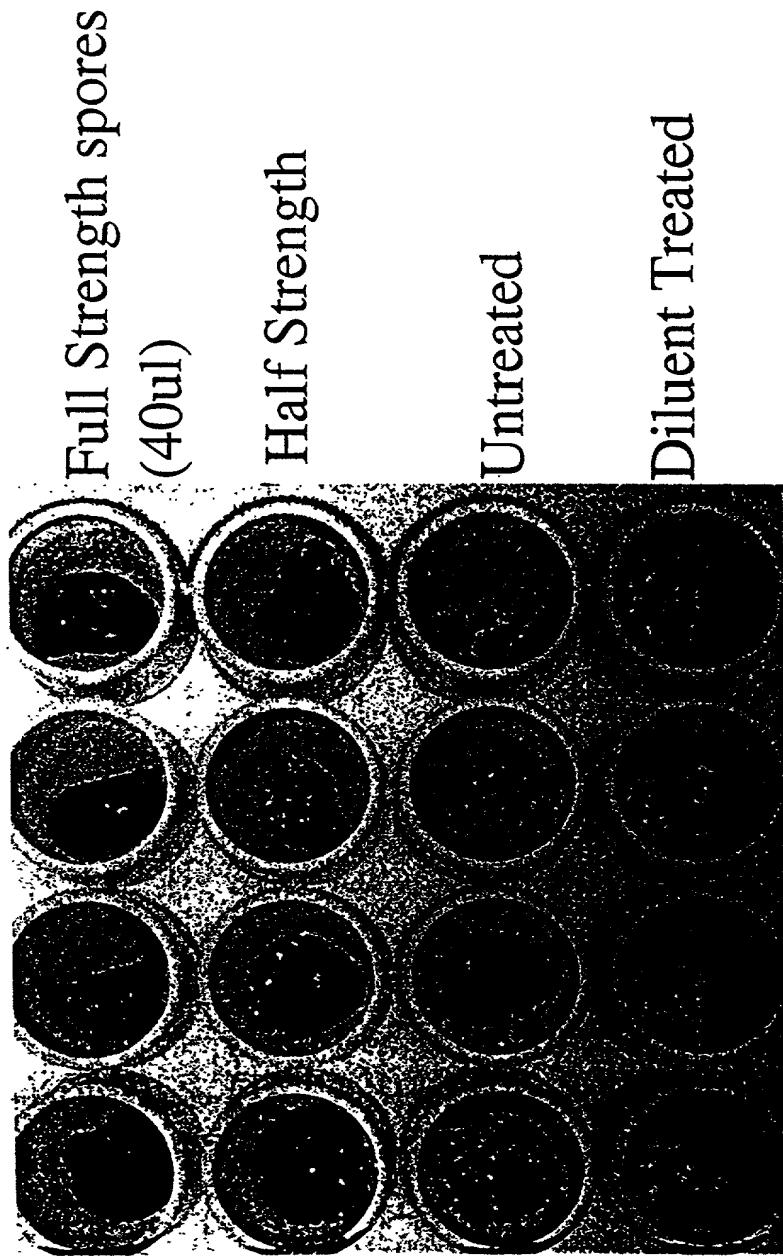
Fig 19



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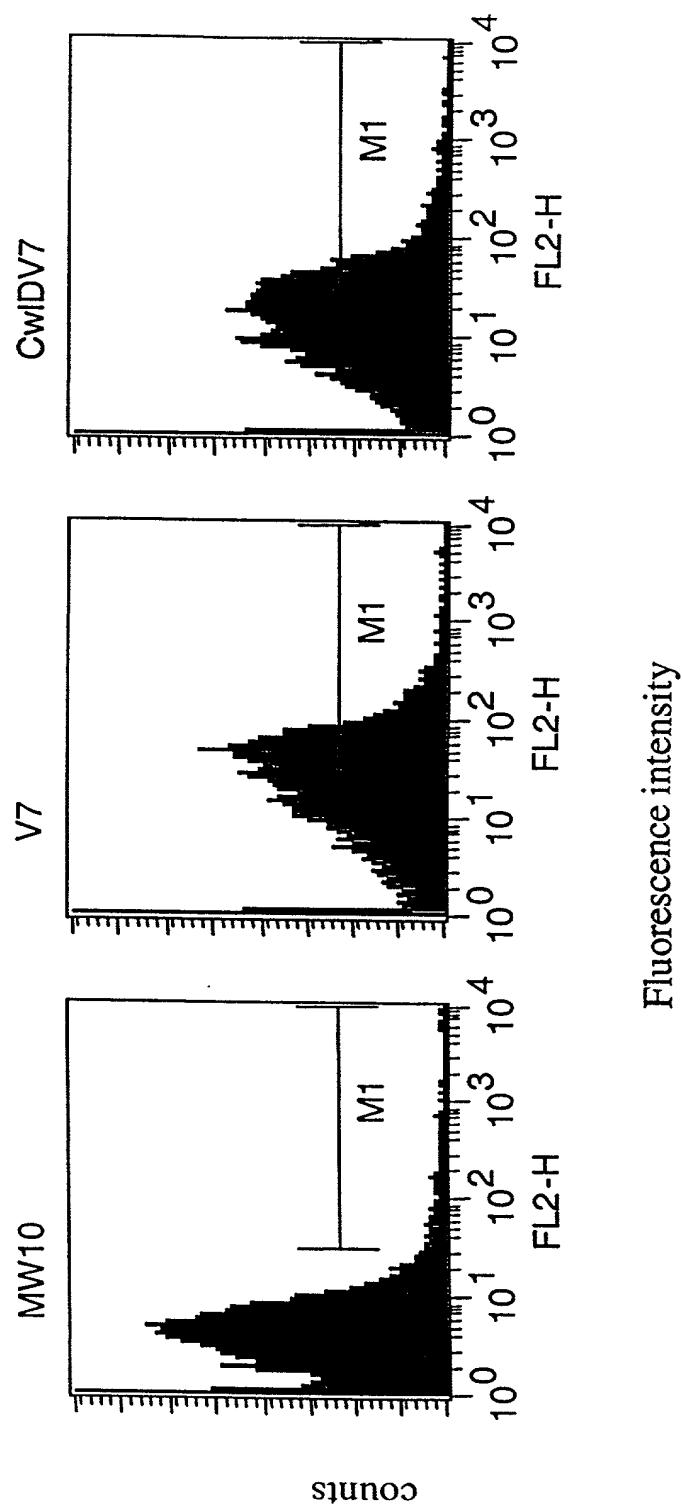
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Fig 20  
Effect of Cry1Ca Expressed on the Spores of *B.*  
*subtilis* on *Spodoptera exigua* neonates



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Fig 21



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## V-antigen Recombinant Spores in Mice

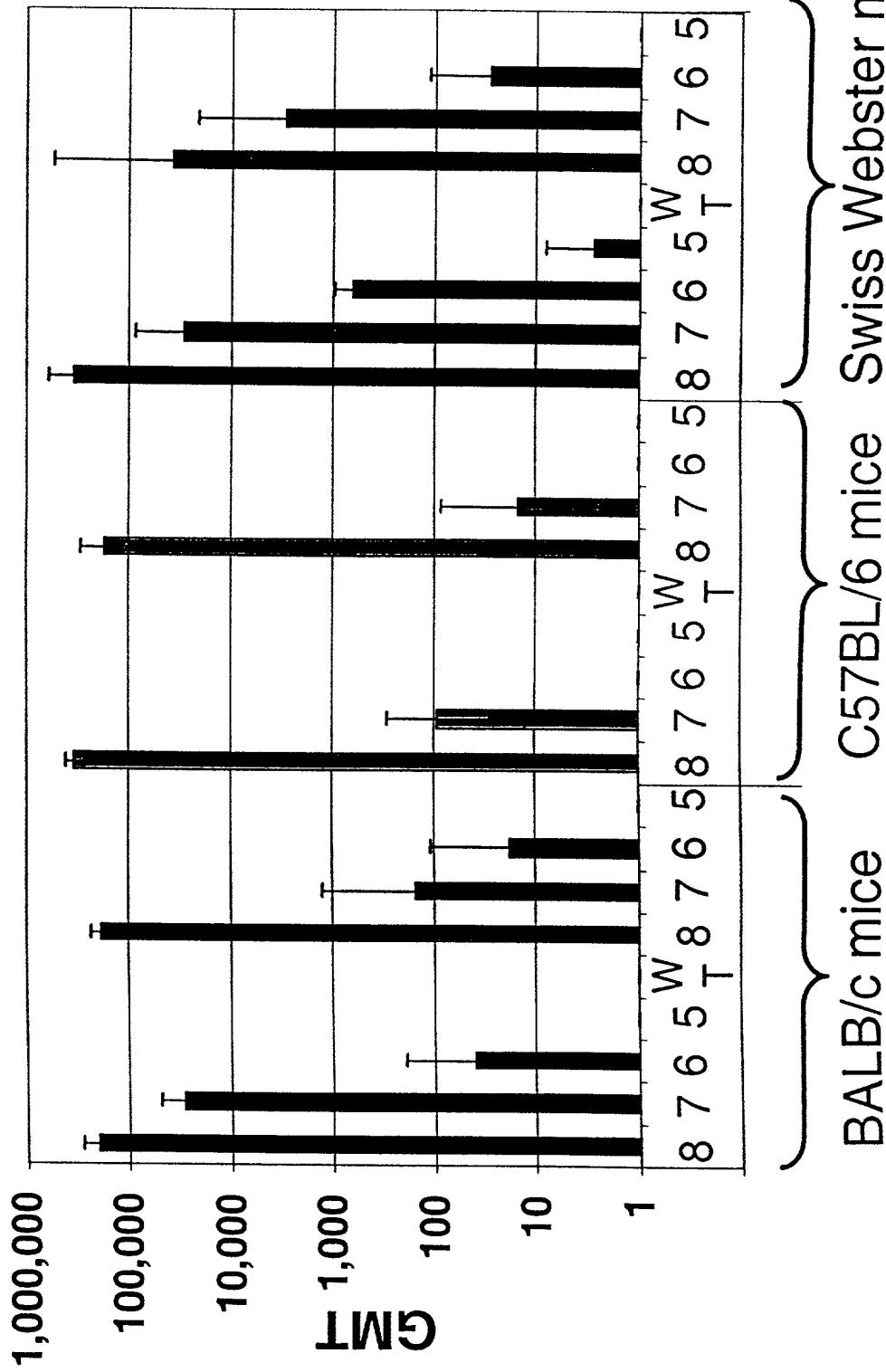


FIG. 22.